

Title (en)
Axial piston machine

Title (de)
Axialkolbenmaschine

Title (fr)
Machine à piston axial

Publication
EP 3020966 B1 20200122 (EN)

Application
EP 14192602 A 20141111

Priority
EP 14192602 A 20141111

Abstract (en)
[origin: EP3020966A1] An axial piston machine (1) is shown, comprising: a shaft (2) having an axis (3) of rotation, a cylinder drum (4) connected to said shaft (2) and having at least a cylinder (5) parallel to said axis (3) of rotation, a piston (6) movable in said cylinder (5), a swash plate (13), a slide shoe (11) pivotally mounted to said piston (6), and holding means holding said slide shoe (11) against said swash plate (13), said holding means having a pressure plate (14) and a number of coil springs (15) arranged between said cylinder drum (4) and said pressure plate (14). The object is to have a reliable operation of said machine with a simple construction. To this end each coil spring (15) is at least at one end fixed by a protrusion (20) extending into said coil spring (15).

IPC 8 full level
F04B 1/20 (2020.01)

CPC (source: CN EP US)
F01B 3/0023 (2013.01 - EP US); **F04B 1/2092** (2013.01 - EP US); **F04B 1/24** (2013.01 - CN); **F04B 53/14** (2013.01 - CN)

Citation (examination)

- DE 102008009815 A1 20090820 - BOSCH GMBH ROBERT [DE]
- DE 19803233 A1 19981119 - CHUO HATSUJO KOGYO CO [JP]
- DE 202006000743 U1 20060413 - INNOTECH FORSCHUNGS & ENTW GMBH [DE]
- EP 0539955 A1 19930505 - TOGO SEISAKUSHO KK [JP]
- FR 2169802 A1 19730914 - KUHLMAN CORP [US]
- EP 1493937 A1 20050105 - PIOLAX INC [JP]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3020966 A1 20160518; EP 3020966 B1 20200122; CN 105587483 A 20160518; CN 105587483 B 20180406; ES 2777213 T3 20200804; US 2016130944 A1 20160512; US 9932828 B2 20180403

DOCDB simple family (application)
EP 14192602 A 20141111; CN 201510744957 A 20151105; ES 14192602 T 20141111; US 201514930747 A 20151103